

ABSTRACT

Methods, data processing systems, and program products supporting multi-cycle simulation are disclosed. According to one method, a configuration database including at least one data structure representing an instance of a Dial entity is received. The instance of the Dial entity has at least an input, an output, and at least one associated latch within a digital design. A value of the output of the instance of the Dial entity controls a value stored within the associated latch. A control file is also received. The control file indicates that at least one associated latch data structure is to be inserted within the configuration database to represent the latch during multi-cycle simulation. In response to receipt of the configuration database and the control file, the configuration database is processed with reference to the control file to insert within the configuration database at least one latch data structure and to associate, within the configuration database, the at least one latch data structure with the instance of the Dial entity.